

(12) UK Patent Application (19) GB (11) 2 353 282 (13) A

(43) Date of Printing by UK Office 21.02.2001

(21) Application No 0024727.0

(22) Date of Filing 19.03.1999

(30) Priority Data

(31) PP2492 (32) 20.03.1998 (33) AU
(31) PP2499 (32) 20.03.1998

(86) International Application Data
PCT/AU99/00195 En 19.03.1999

(87) International Publication Data
WO99/49029 En 30.09.1999

(71) Applicant(s)

Benitec Australia Ltd
(Incorporated in Australia)
Level 4, 62 Pitt Street, Sydney, NSW 2000, Australia

State of Queensland through its Department of
Primary Industries
(Incorporated in Australia)
Primary Industries Building, 80 Ann Street, Brisbane,
QLD 4000, Australia

(72) and (74) continued overleaf

(51) INT CL⁷
C12N 15/11

(52) UK CL (Edition S)
C3H HB7M HB7T HB7X H643 H656 H657 H683 H684
H687
U1S S1304 S1334 S2410

(56) Documents Cited by ISA
WO 98/53083 A
Cell, 1999, Vol. 96(3), pages 303-6 Developmental
Genetics, 1998, Vol. 22(1), pages 100-9 Plant Molecular
Biology, 1993, Vol. 22(6), pages 1067-85 The Plant
Journal, 1998, Vol. 15(6), pages 737-46 Annals of
Botany, 1997, Vol. 79(1), pages 3-12 Genetics, 1997,
Vol. 147(3), pages 1181-90 Cell, 1994, Vol. 77(7), pages
993-1002 Plant Cell, 1996, Vol. 8, pages 2277-94

(58) Field of Search by ISA
Online: WPAT; MEDLINE; CHEMICAL ABSTRACTS

(54) Abstract Title
Control of gene expression

(57) The present invention relates generally to a method of modifying gene expression and to synthetic genes for modifying endogenous gene expression in a cell, tissue or organ of a transgenic organism, in particular a transgenic animal or plant. More particularly, the present invention utilises recombinant DNA technology to post-transcriptionally modify or modulate the expression of a target gene in a cell, tissue, organ or whole organism, thereby producing novel phenotypes. Novel synthetic genes and genetic constructs which are capable of repressing delaying or otherwise reducing the expression of an endogenous gene or a target gene in an organism when introduced thereto are also provided.

(72) Inventor(s)

Michael Wayne Graham
Robert Norman Rice

(74) Agent and/or Address for Service

D Young & Co
21 New Fetter Lane, LONDON, EC4A 1DA,
United Kingdom